

The diagram illustrates a vehicle steering system with a variable steering angle mechanism. At the top, two road wheels (1L, 1R) are connected to a steering knuckle assembly. A steering wheel (S) is connected to the knuckle assembly via a steering column (14). A front road wheel steering angle sensor (14) is positioned to detect the steering angle. A vehicle speed sensor (16) provides input to a controller (4). The controller (4) also receives input from a rear road wheel steering angle sensor (17) and outputs a signal to a drive motor (11). The drive motor (11) is connected to a steering angle variable mechanism (3) via a drive shaft (12). The steering angle variable mechanism (3) includes a nut (10) and a spring (13) that adjusts the steering angle. The mechanism is connected to the rear wheels (2L, 2R) via a linkage system (5L, 5R, 6L, 6R, 7L, 7R, 8, 9). The rear road wheel steering angle sensor (17) is positioned to detect the steering angle of the rear wheels.

FIG.2

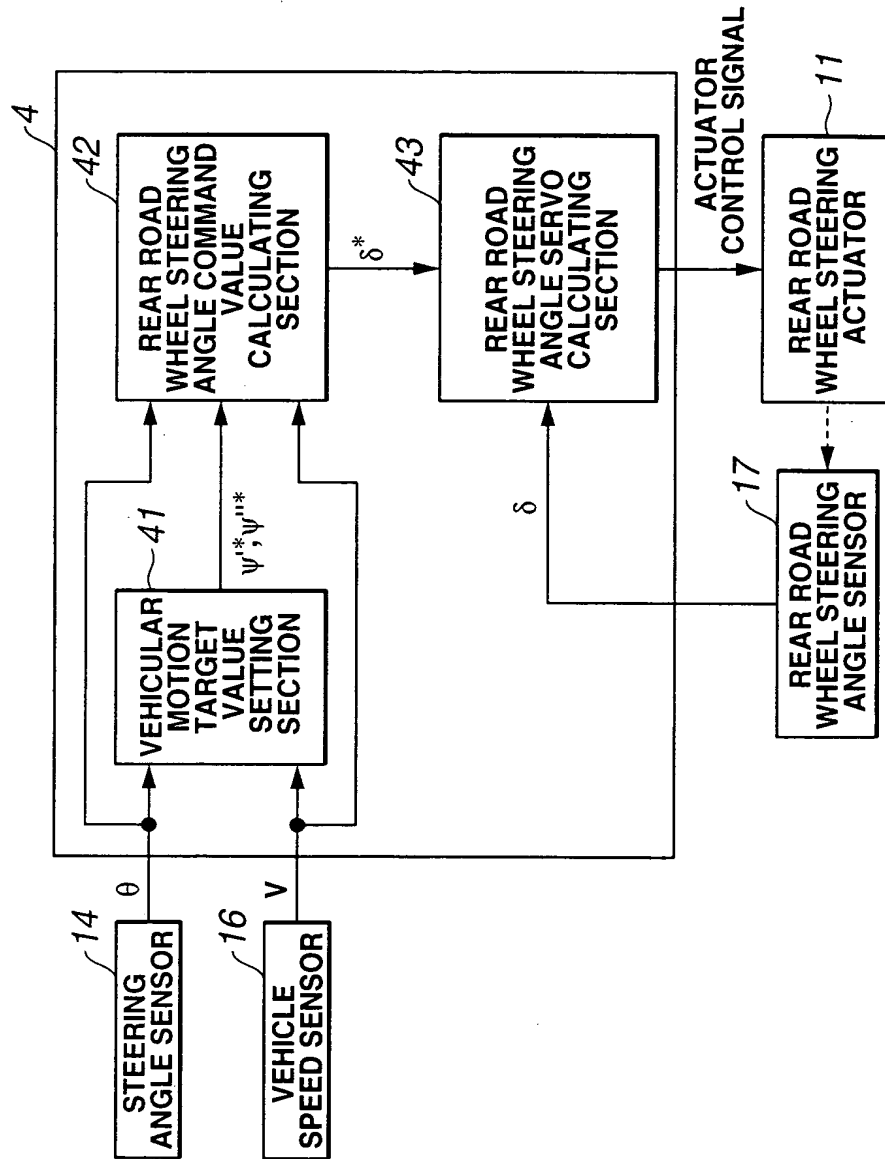
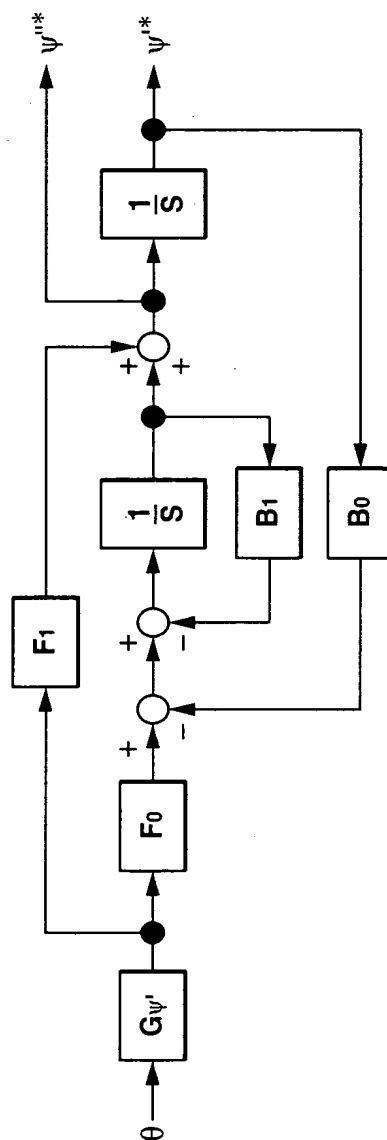
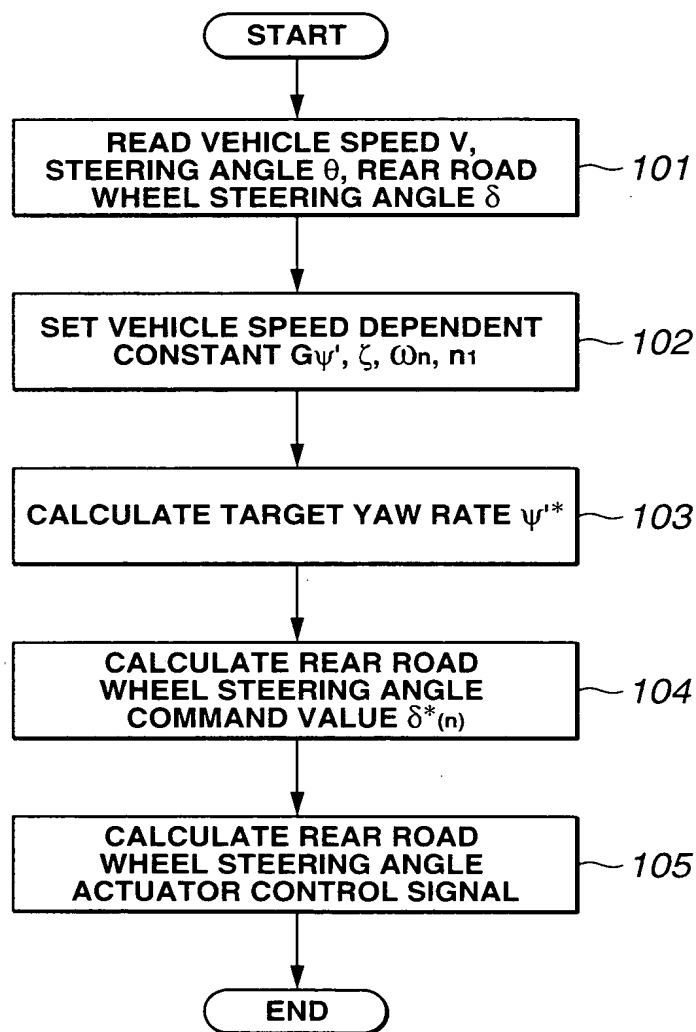


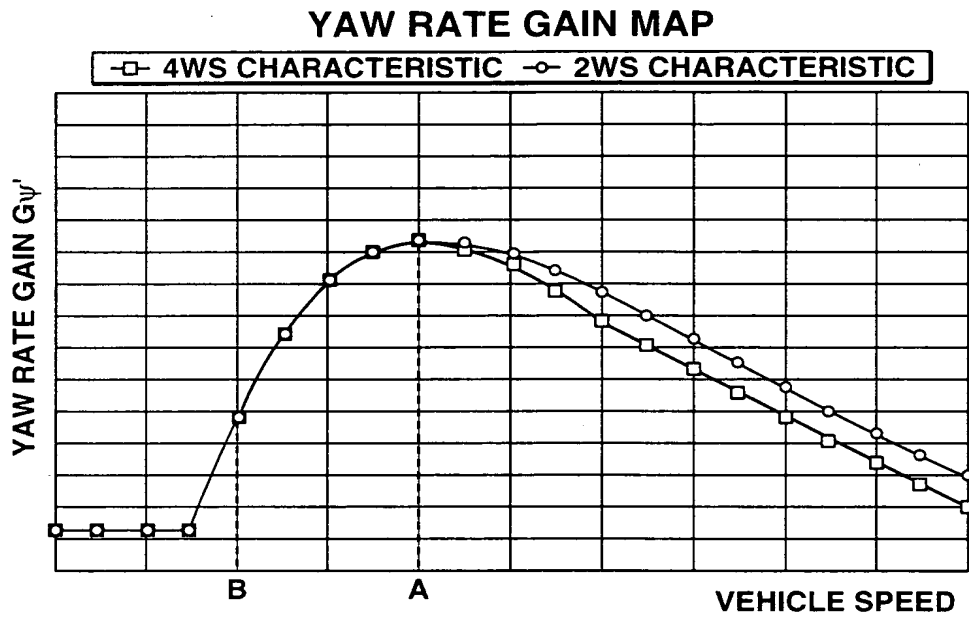
FIG.3



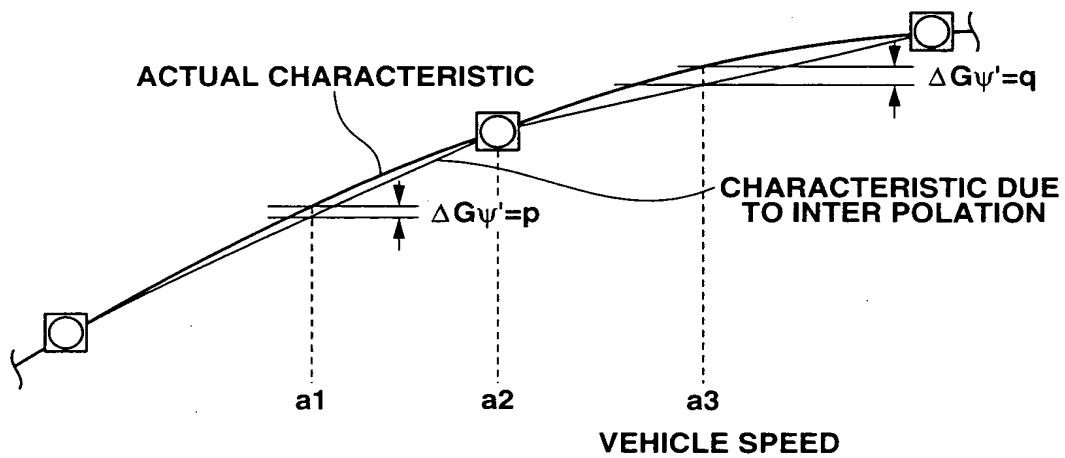
**FIG.4**



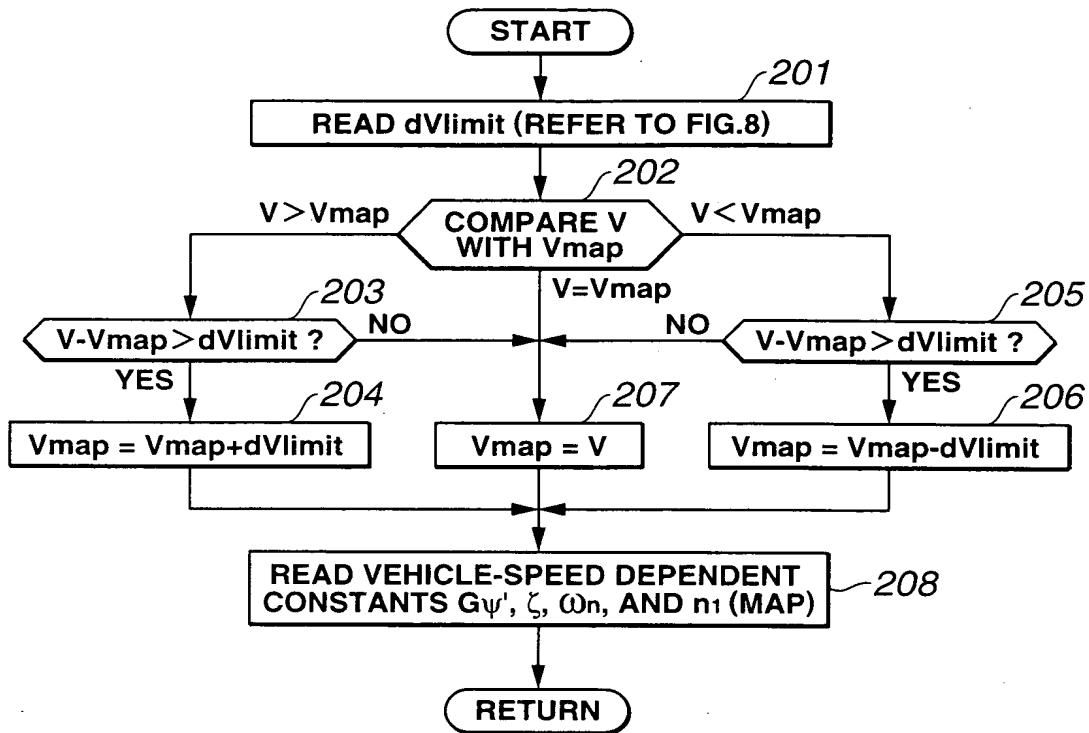
**FIG.5**



**FIG.6**



**FIG.7**



**FIG.8**

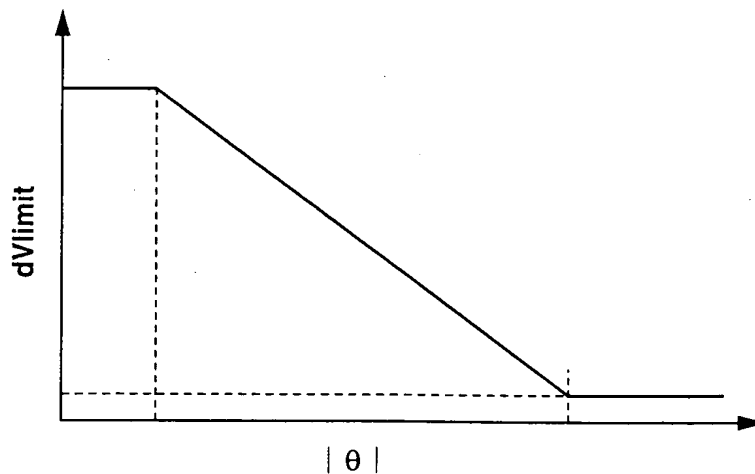
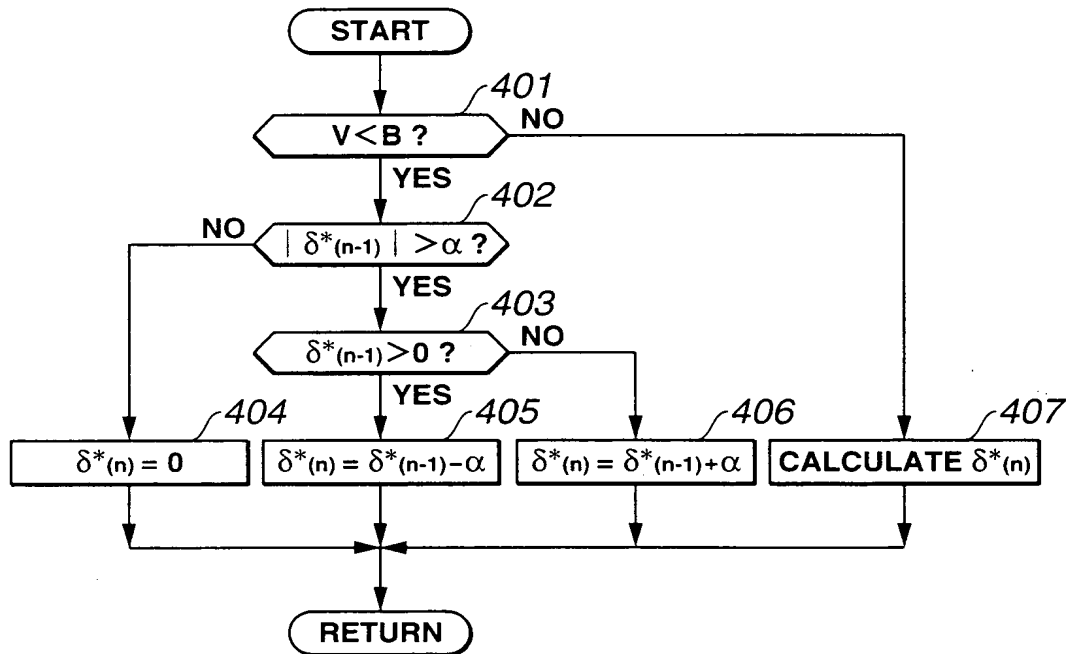
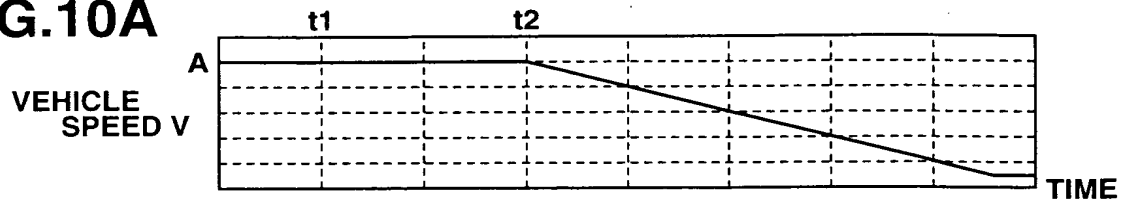


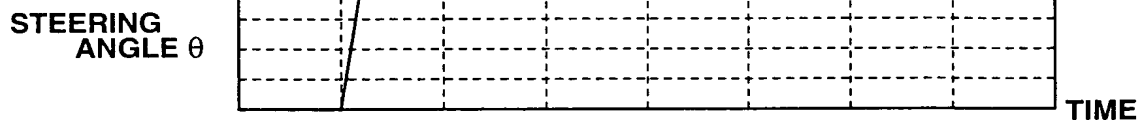
FIG.9



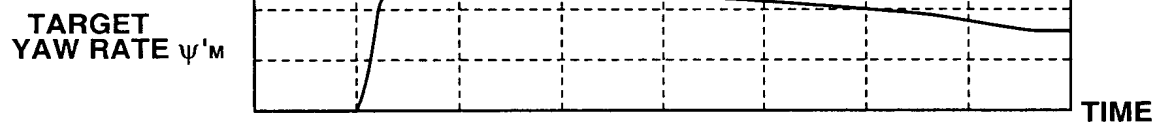
**FIG.10A**



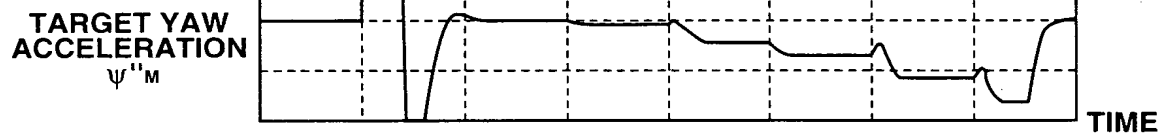
**FIG.10B**



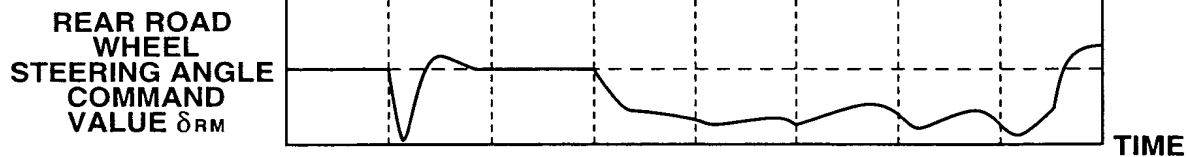
**FIG.10C**



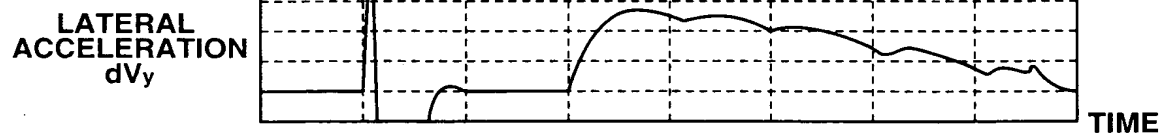
**FIG.10D**



**FIG.10E**

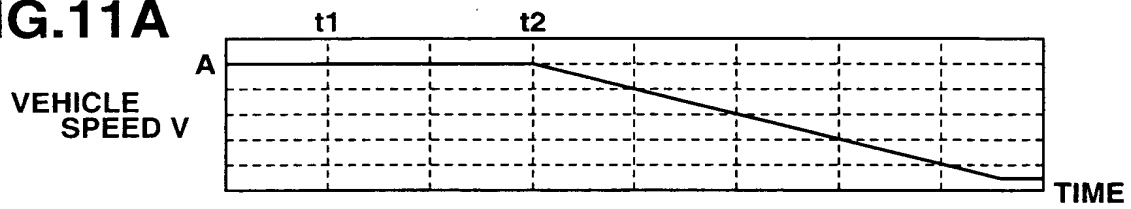


**FIG.10F**

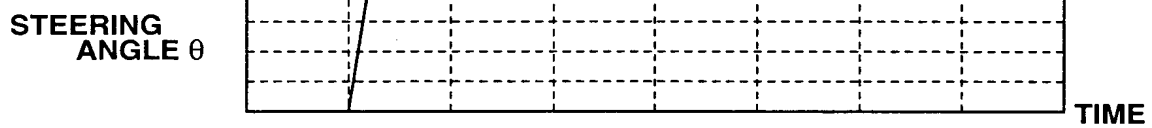




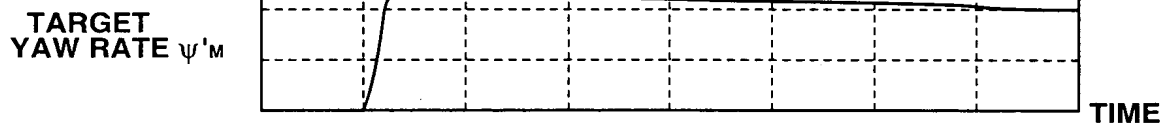
**FIG.11A**



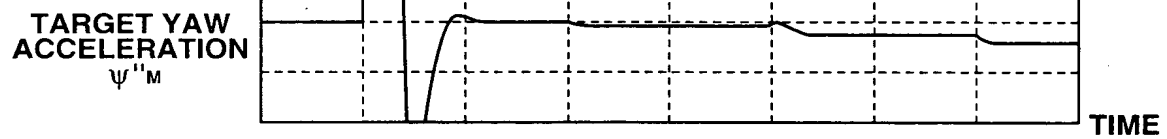
**FIG.11B**



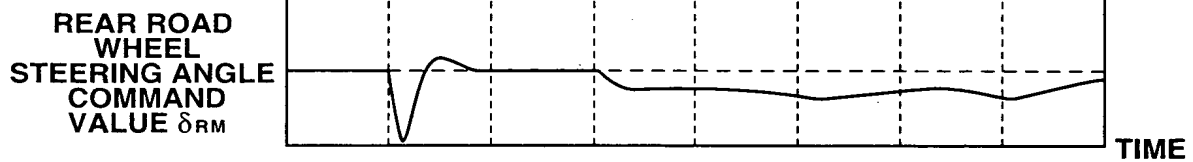
**FIG.11C**



**FIG.11D**



**FIG.11E**



**FIG.11F**

